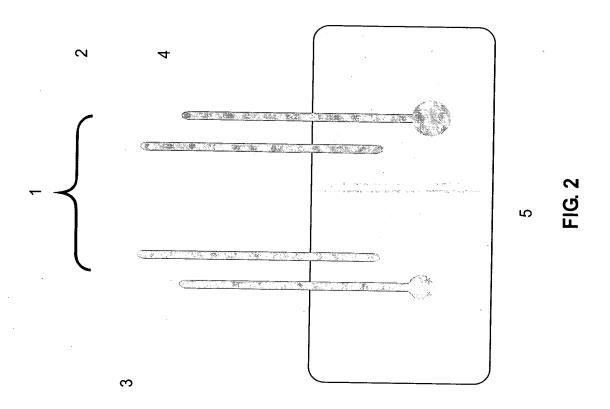
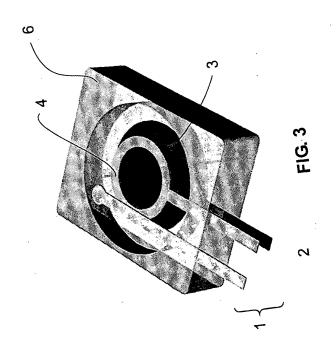


Non-Co-Planar Electrode Configuration



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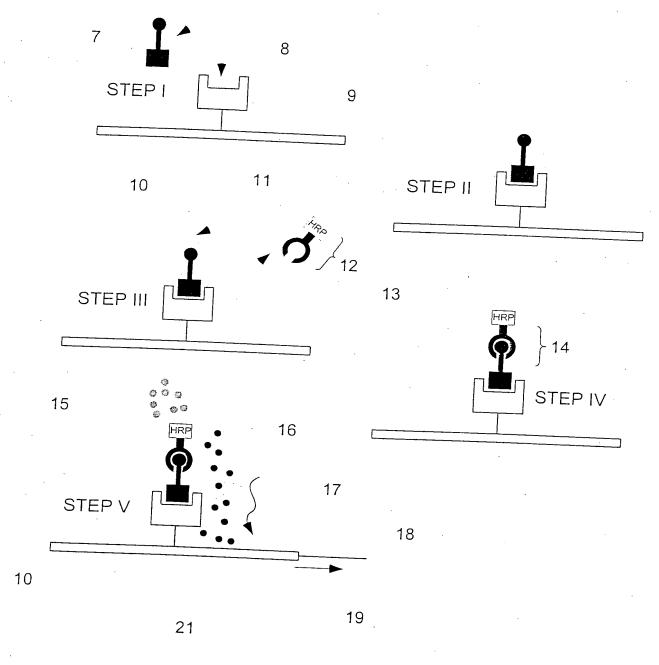
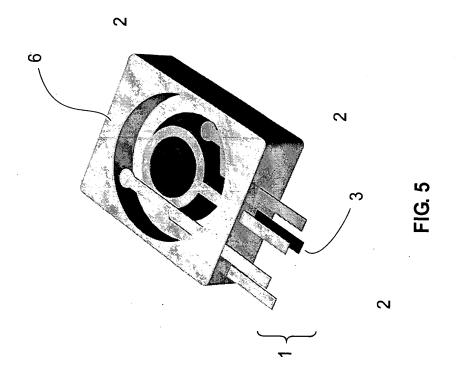


FIG. 4

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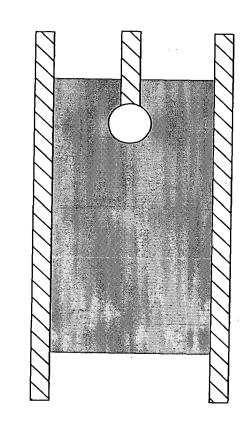
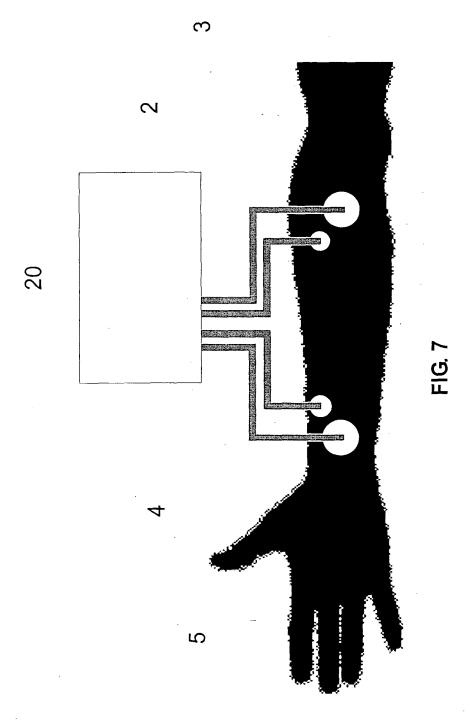
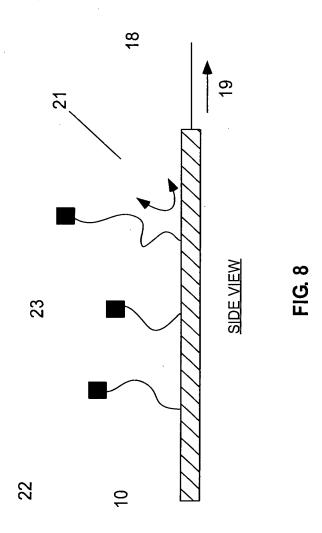
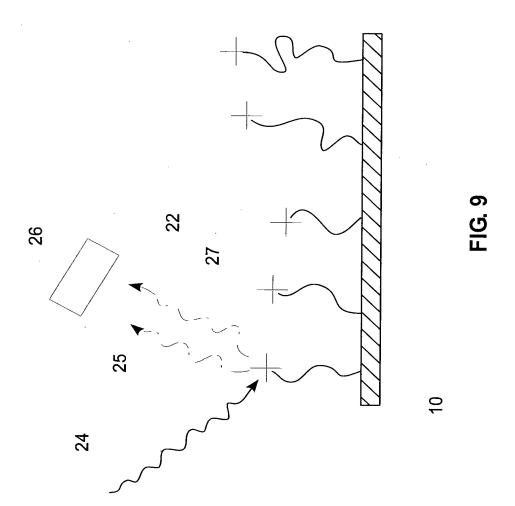


FIG. 6







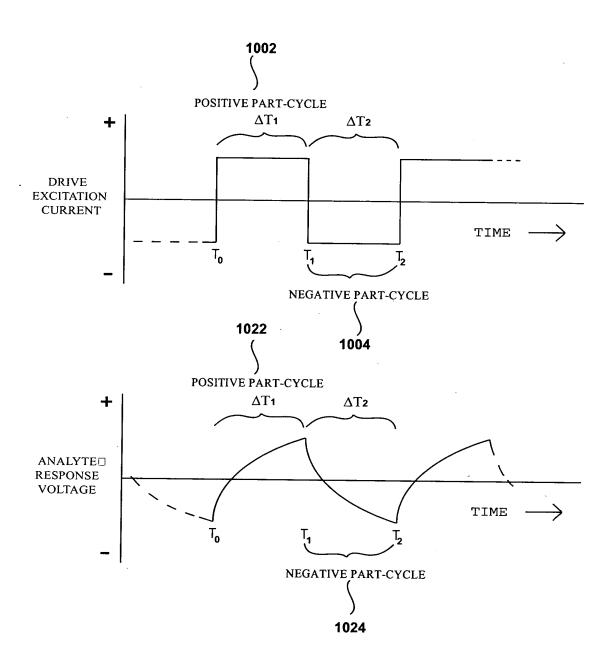


FIGURE 10 Excitation and Response Waveforms

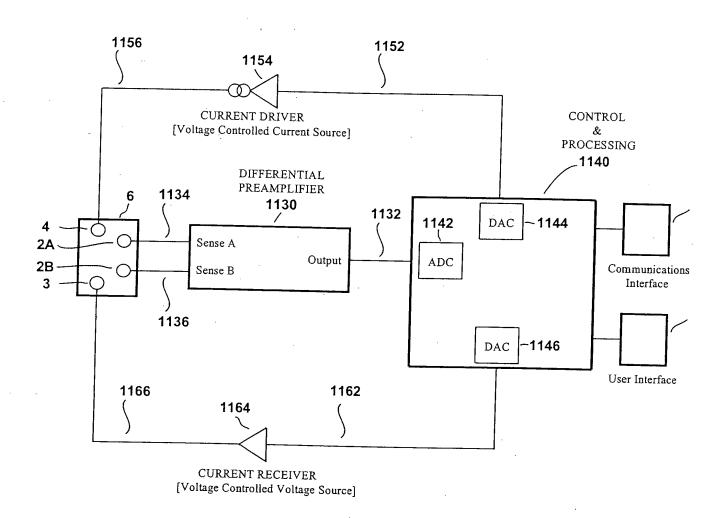


FIGURE 11Galvanodynamic Test System

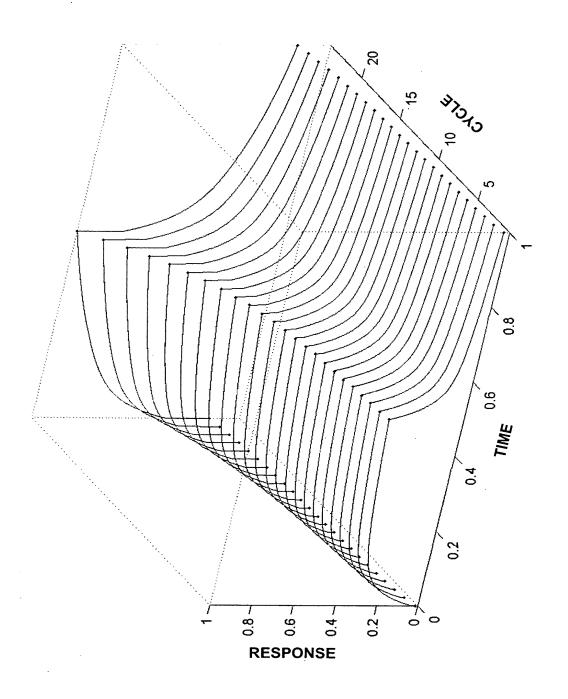
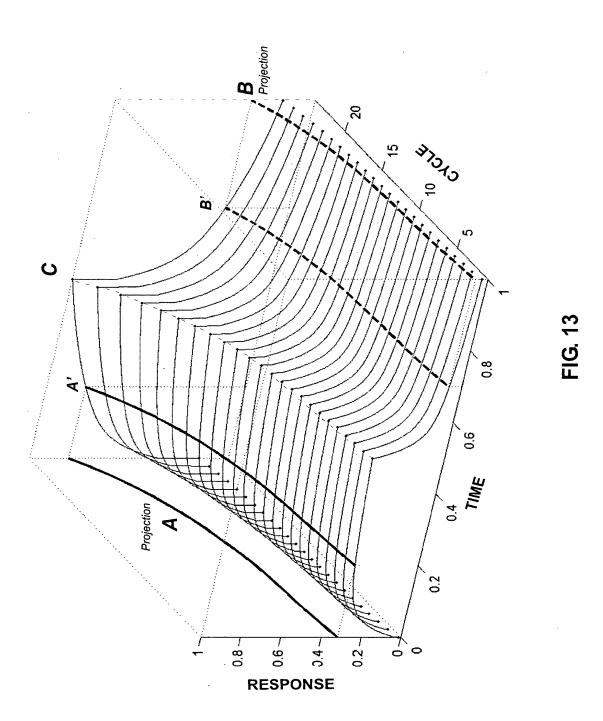
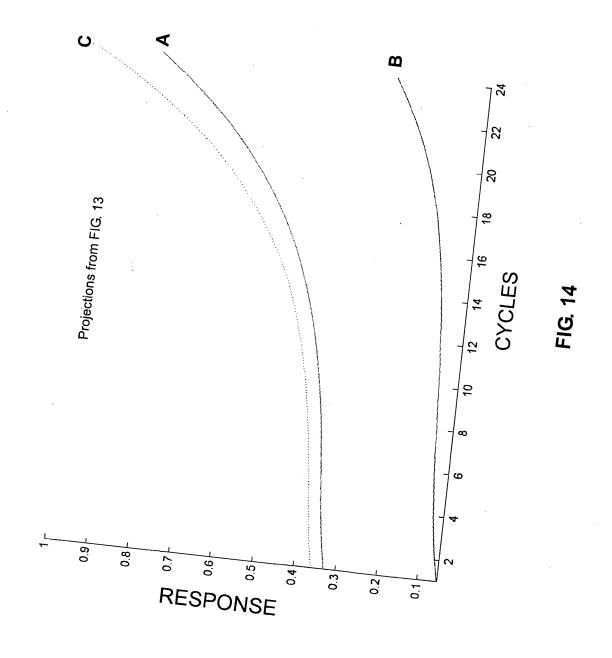


FIG. 12





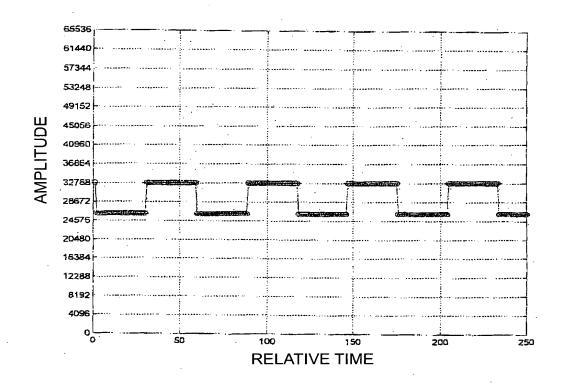


FIG. 15

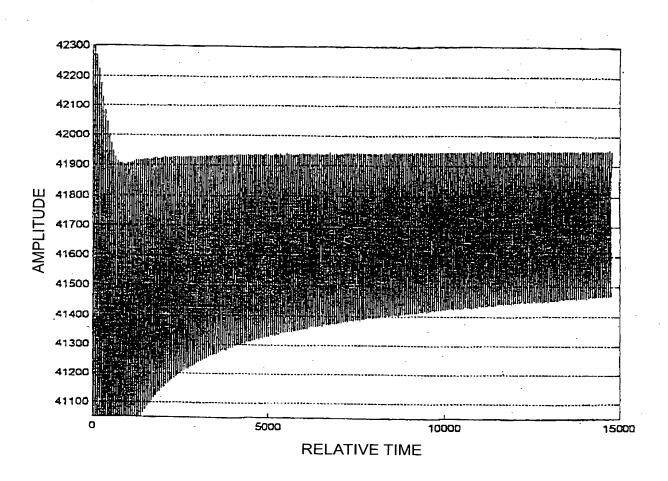


FIG. 16A

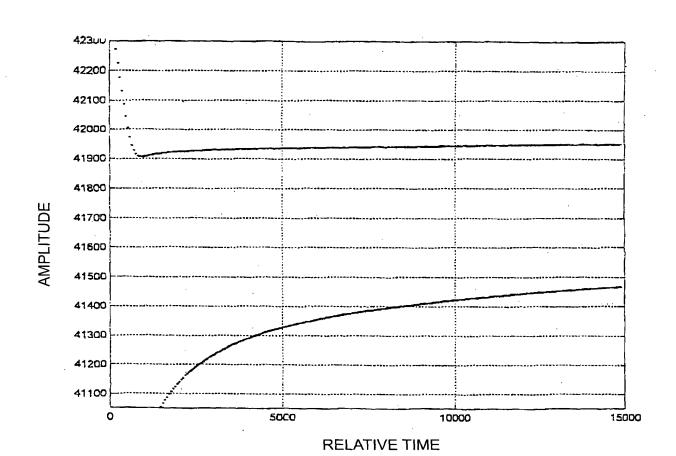


FIG. 16B

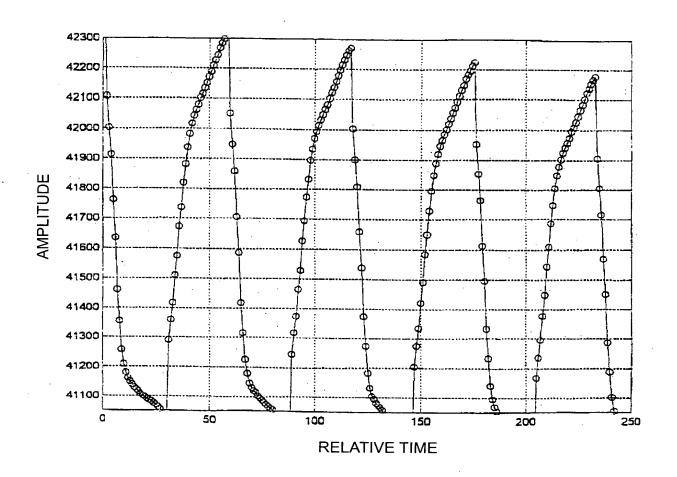
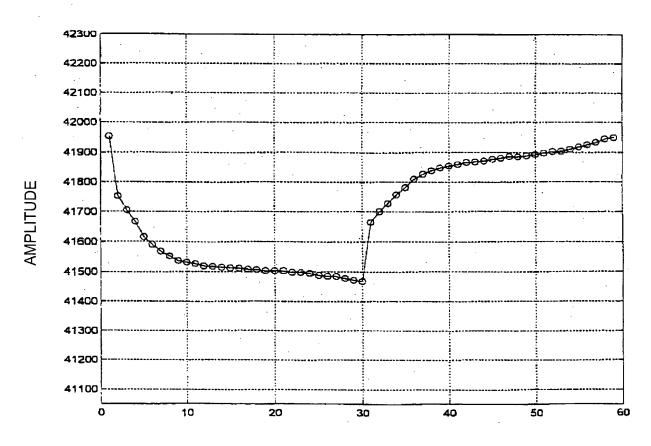


FIG. 16C



RELATIVE TIME

FIG. 16D

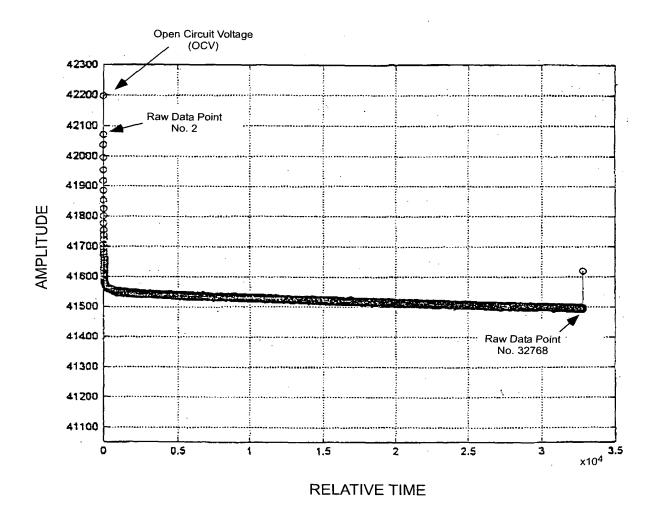
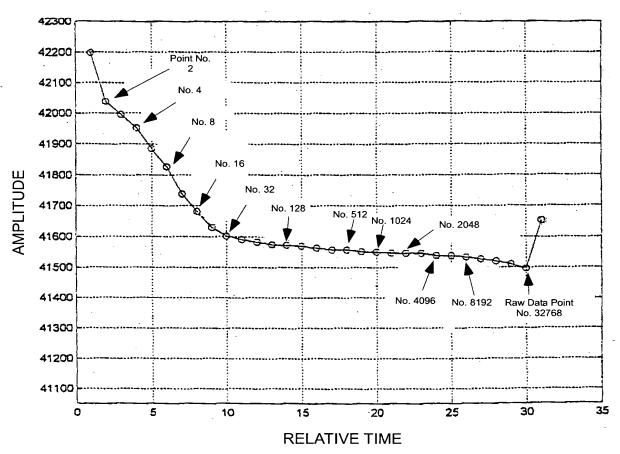
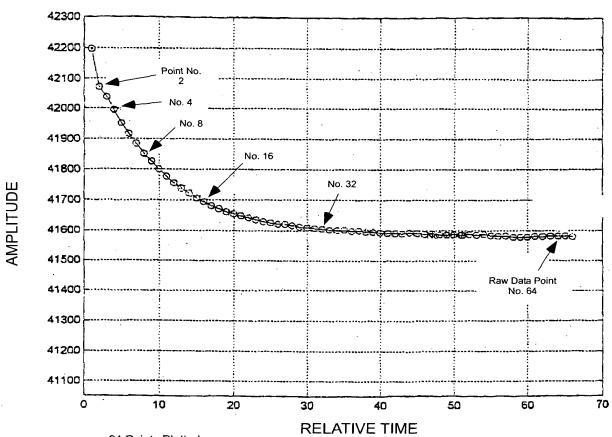


FIG. 17A



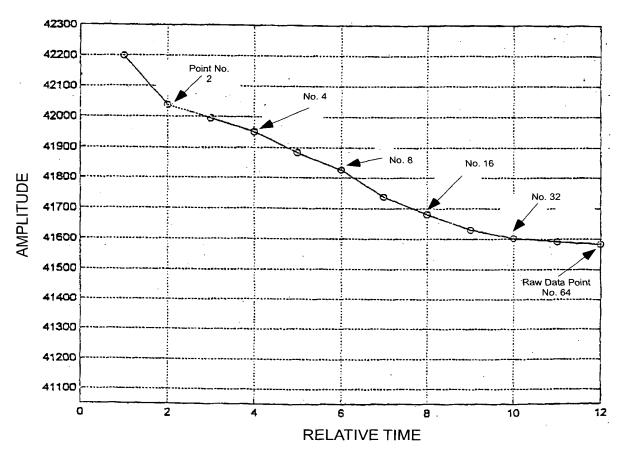
Exponentially Decimated Data Point First Discharge Pulse (32,768 Raw Data Points)

FIG. 17B



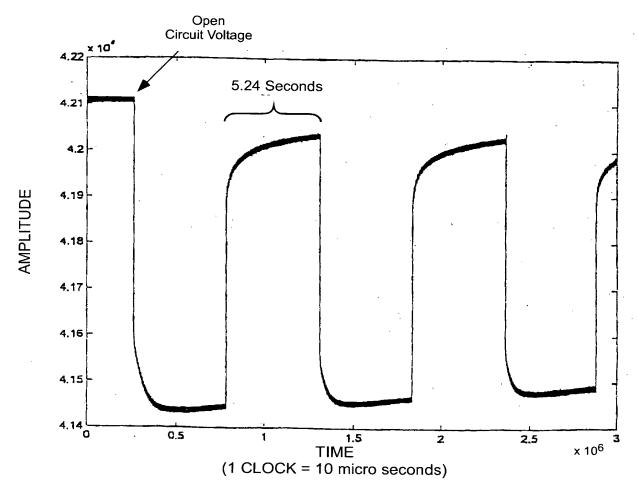
- 64 Points Plotted
- Raw Data Plot Linear Time ScaleDetail of First Discharge Pulse

FIG. 17C



- Exponentially Decimated Data Plot
- Last Point Corresponds to Raw Date Point No. 64

FIG. 17D



- Raw data from several pulsesPulse Duration 5.24 SecondsSampling Frequency 100 kHz

FIG. 18A

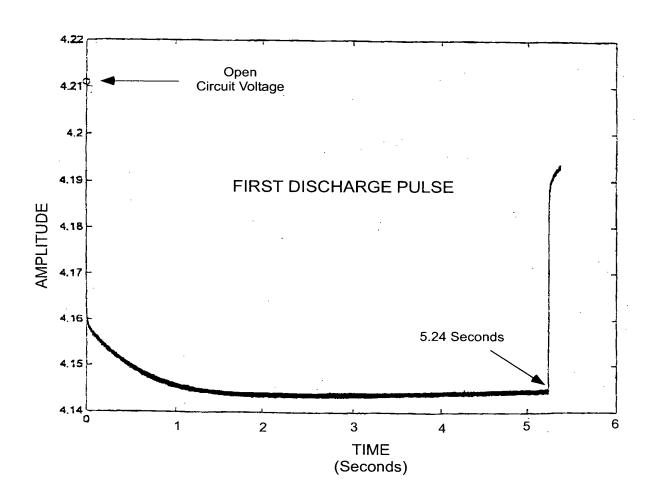


FIG. 18B

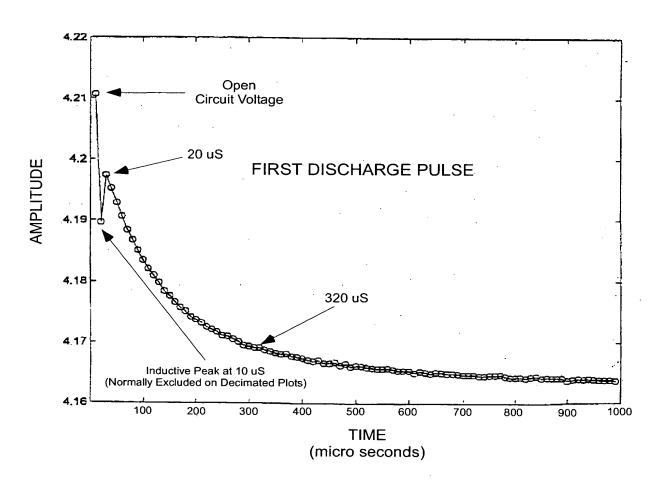
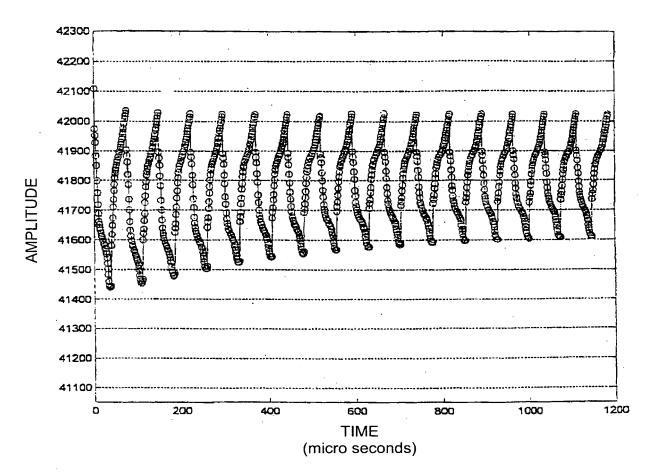


FIG. 18C



- Exponentially Decimated Data 16 Full CyclesSampling Frequency: 100 kHzPulse Duration 5.24 Seconds

FIG. 18D

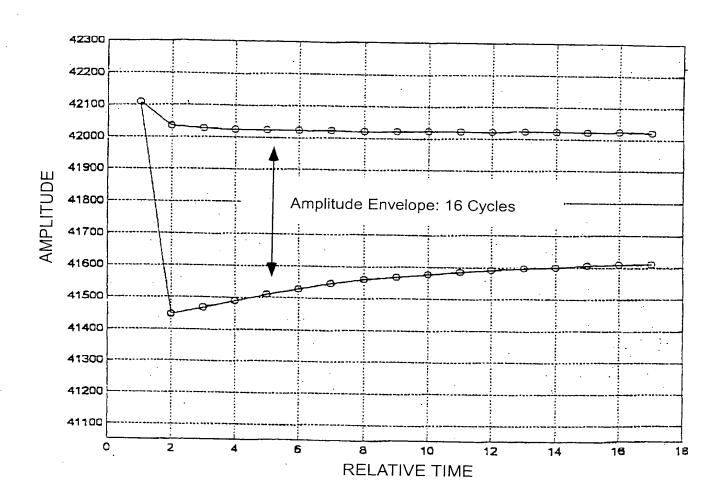


FIG. 18E

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FIRST DISCHARGE PULSE AND RECOVERY

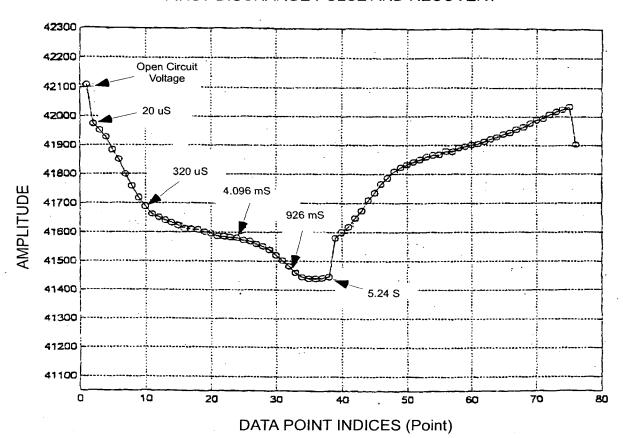


FIG. 18F

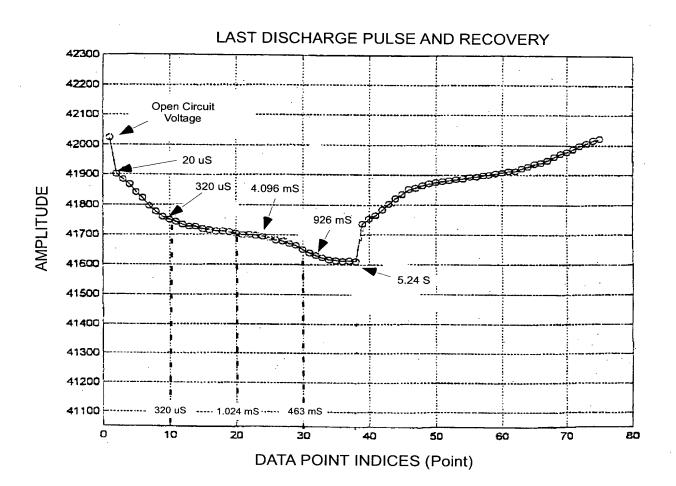
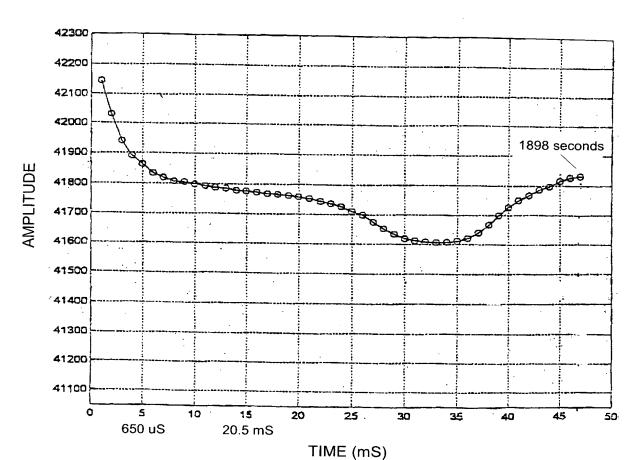


FIG. 18G



Sampling Interval: 160 micro seconds

FIG. 19

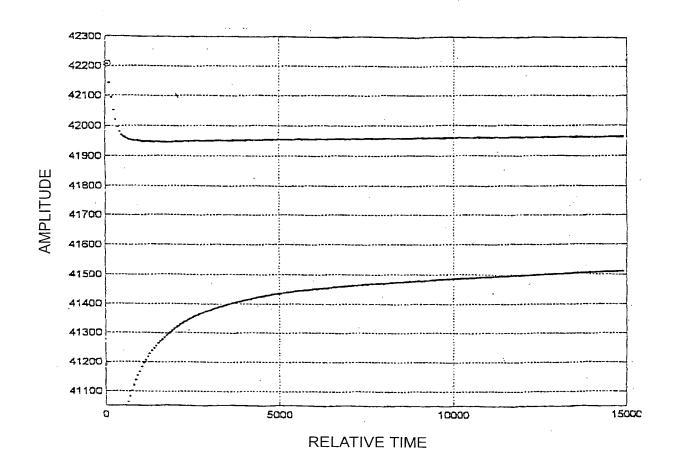


FIG. 20A

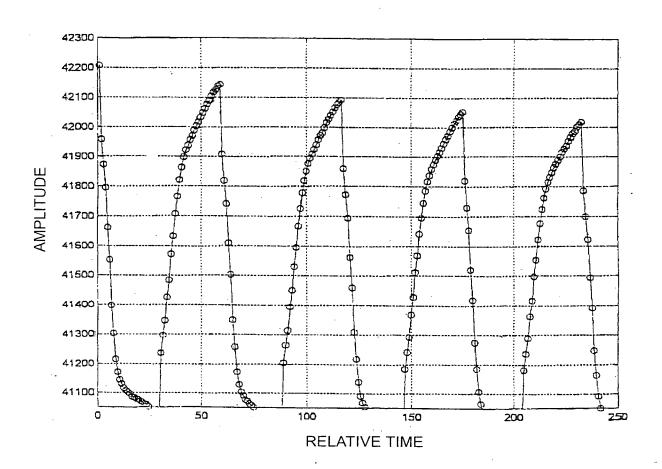


FIG. 20B

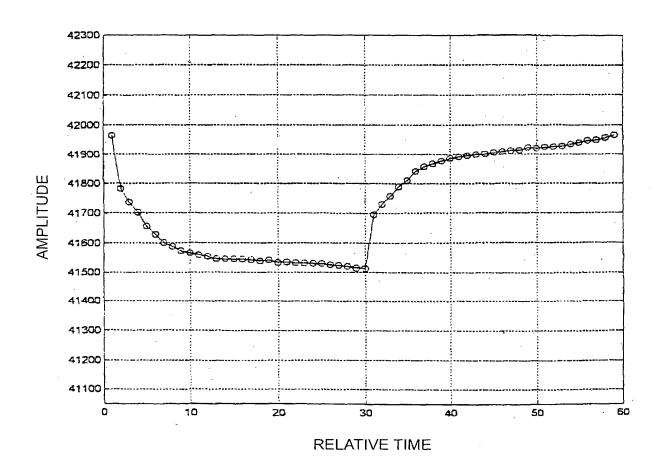


FIG. 20C

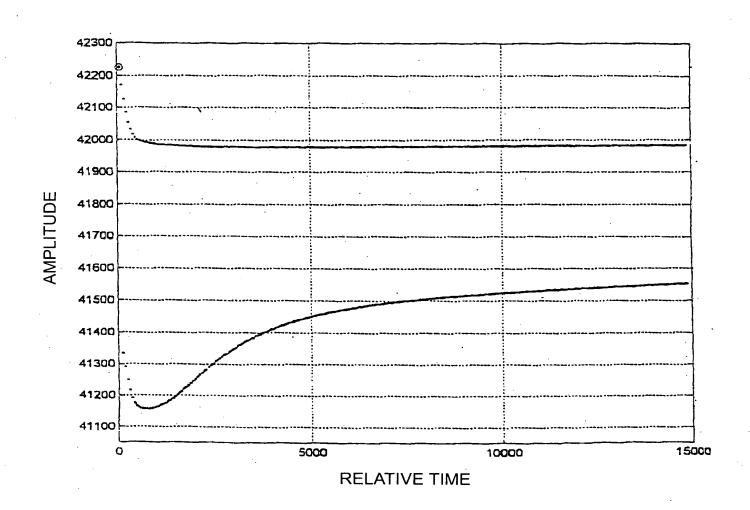


FIG. 21A

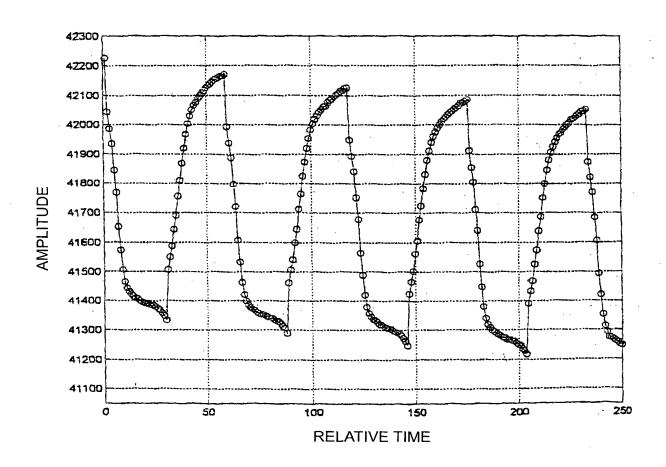


FIG. 21B

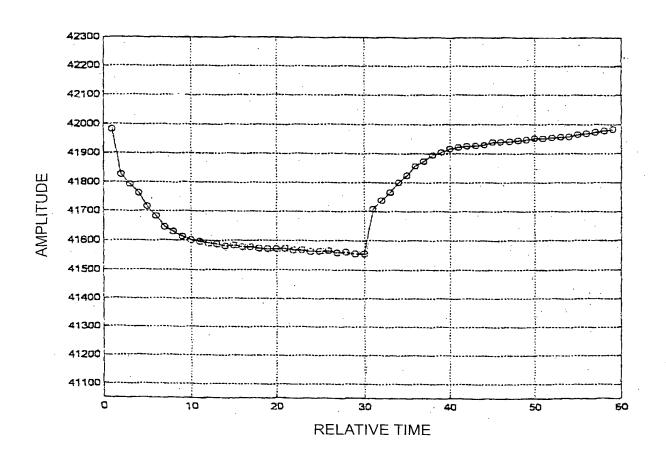


FIG. 21C

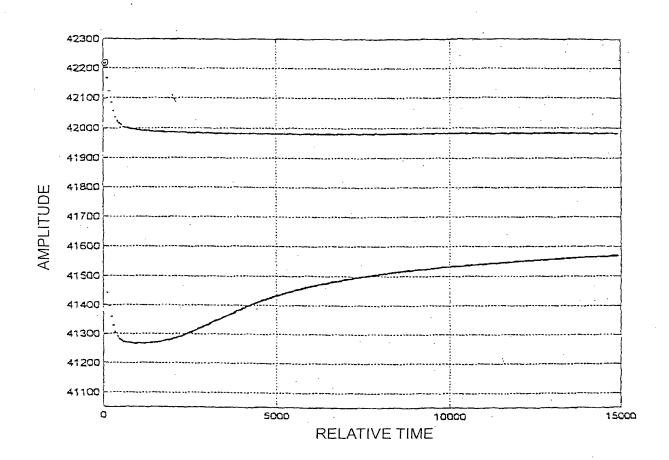


FIG. 22A

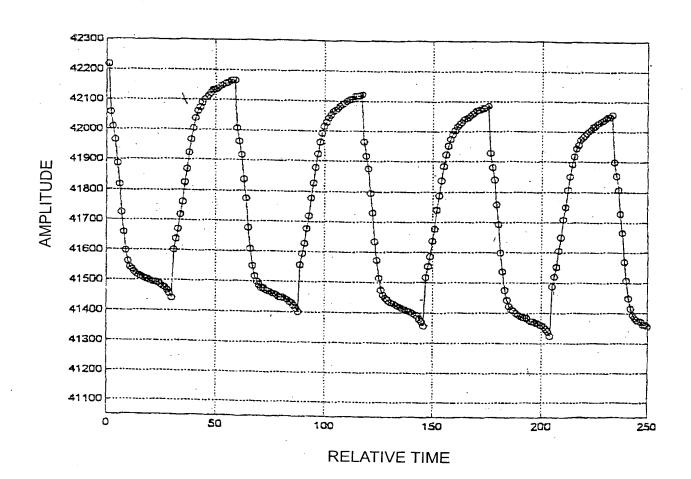


FIG. 22B

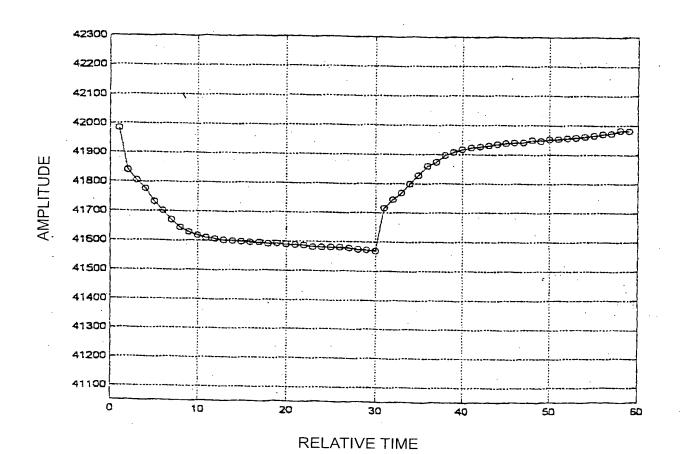


FIG. 22C

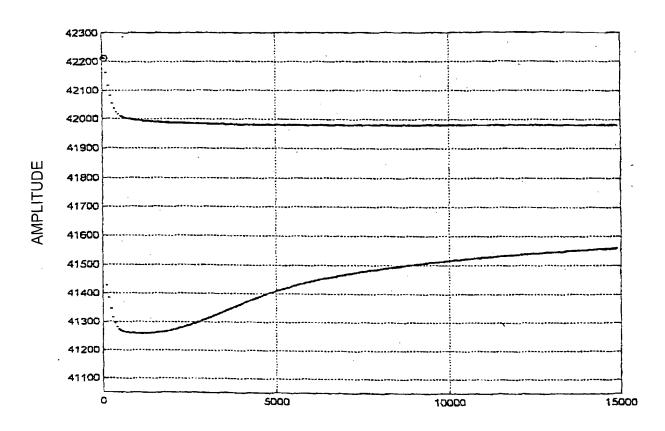


FIG. 23A

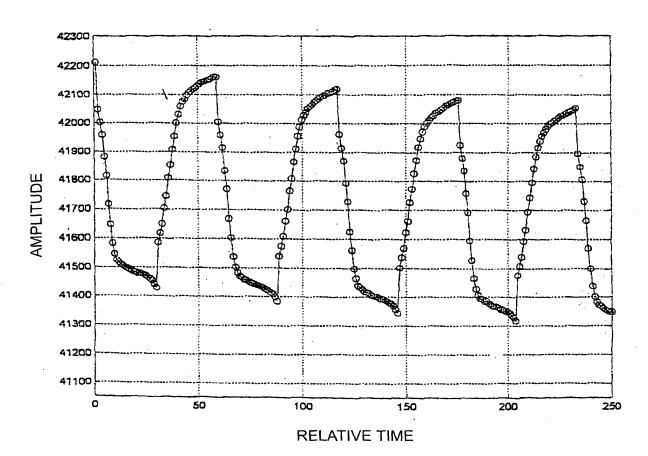


FIG. 23B

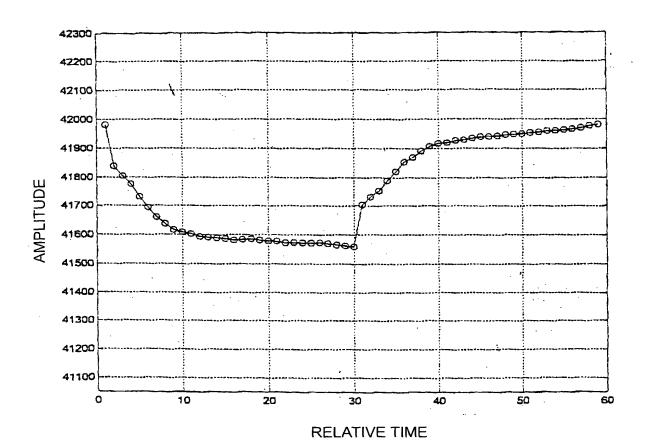


FIG. 23C

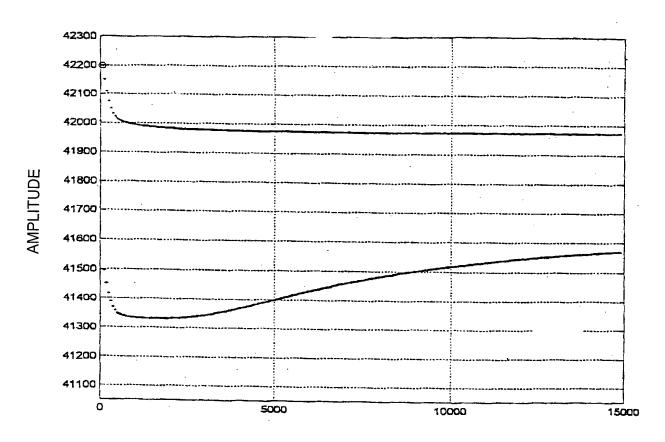


FIG. 24A

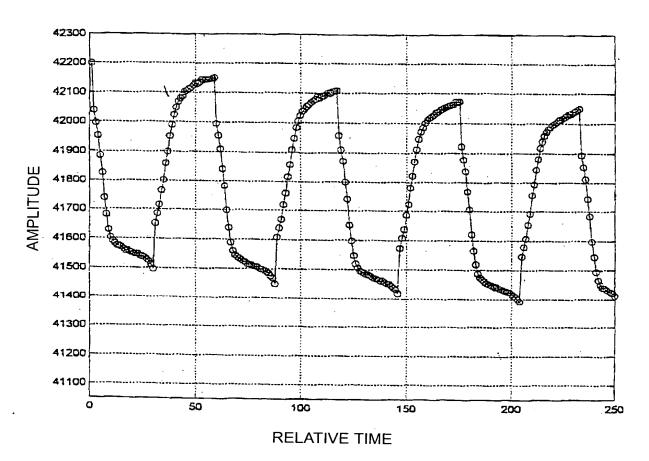


FIG. 24B

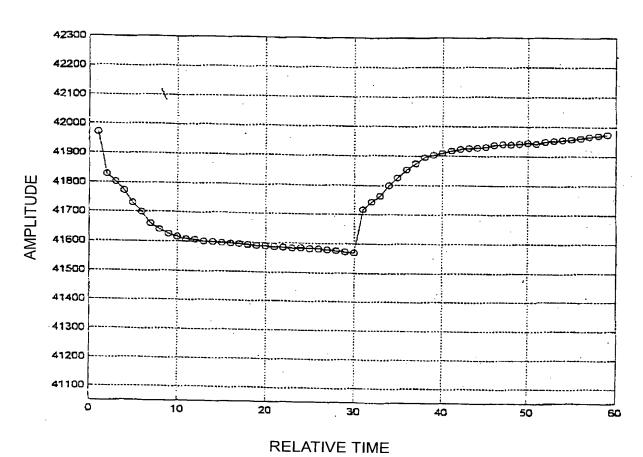


FIG. 24C

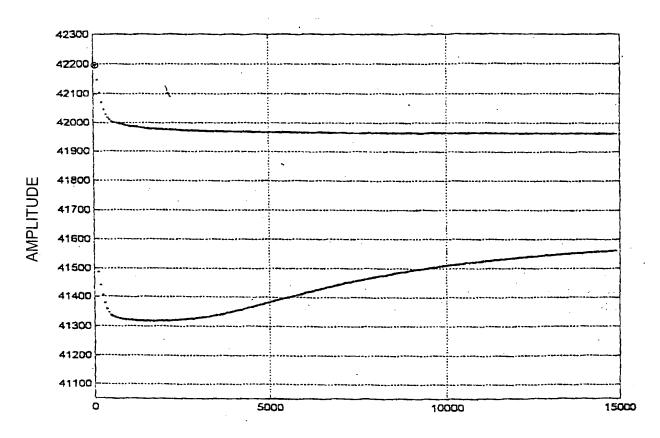


FIG. 25A

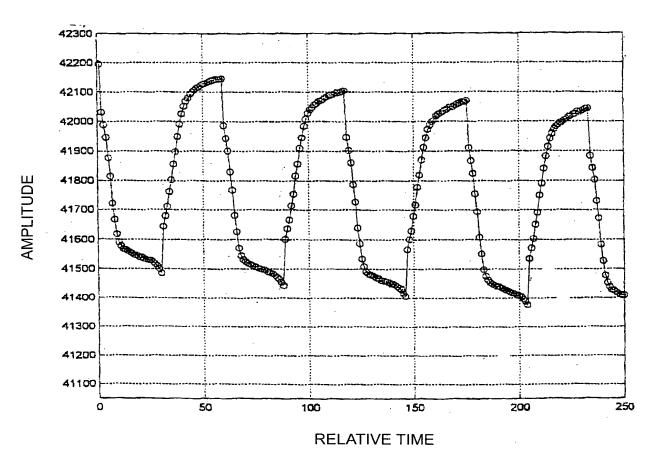


FIG. 25B

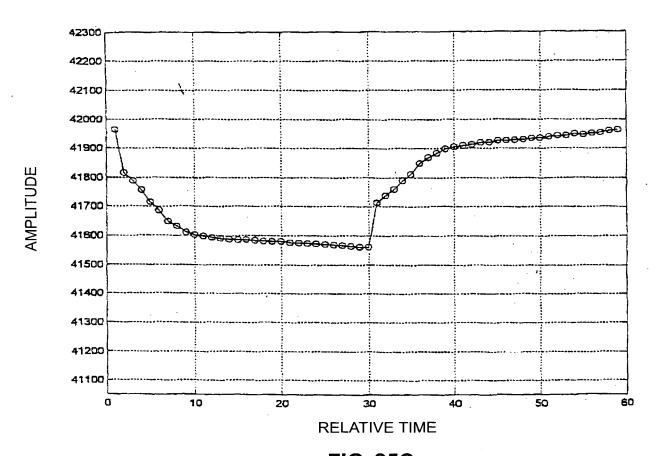


FIG. 25C

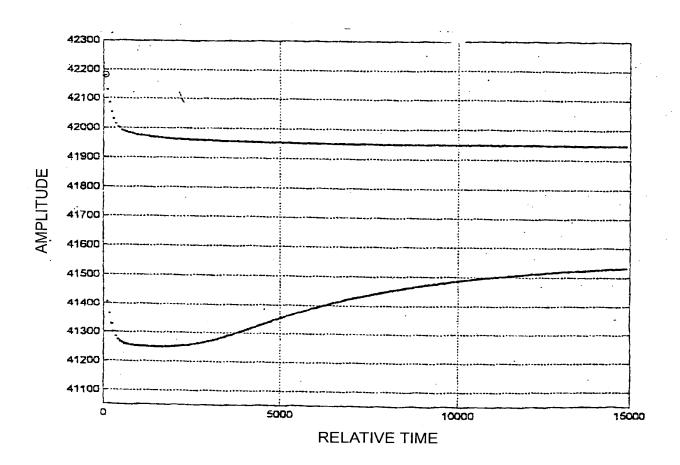


FIG. 26A

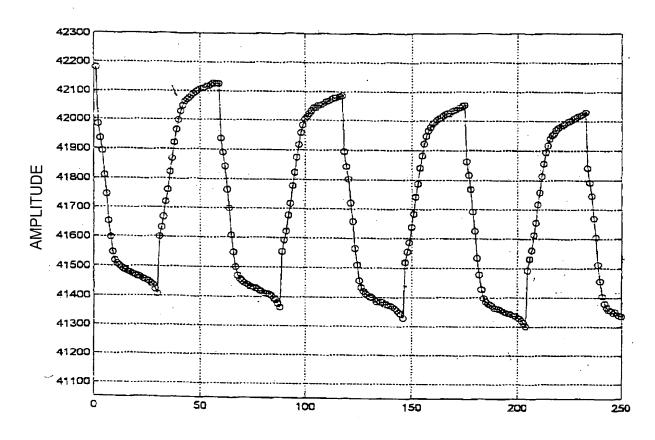


FIG. 26B

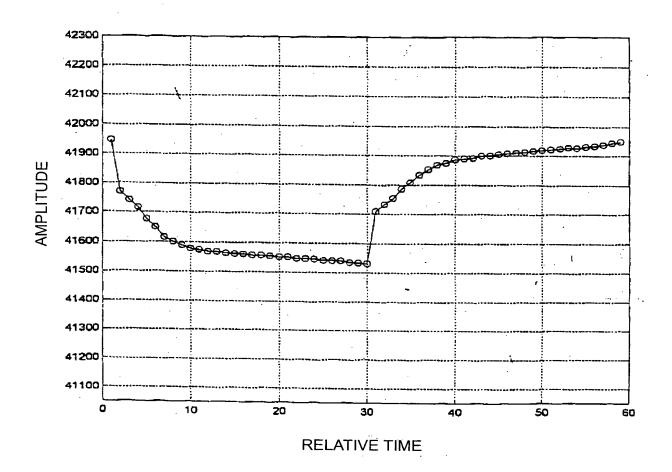


FIG. 26C

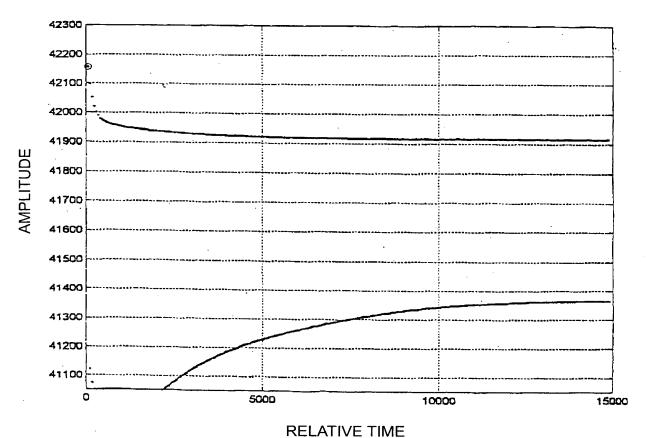


FIG. 27A

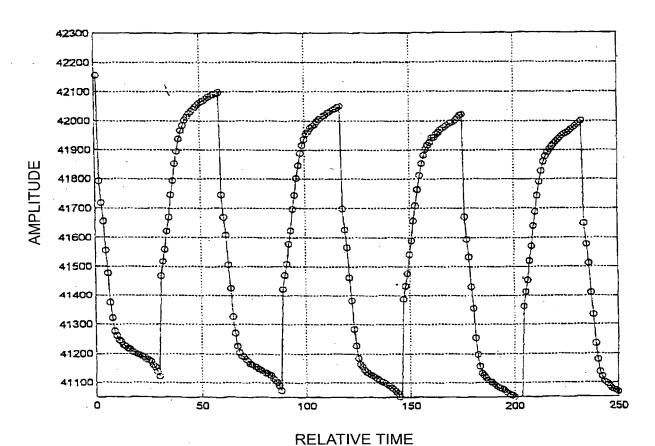


FIG. 27B

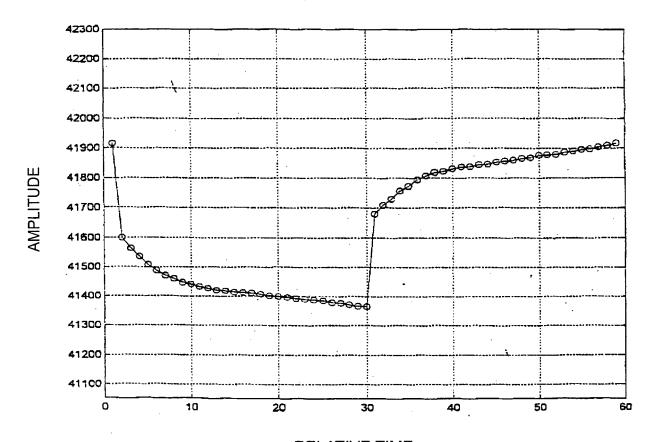
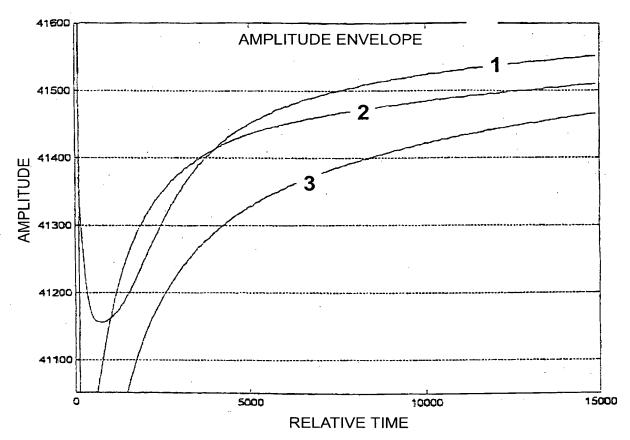
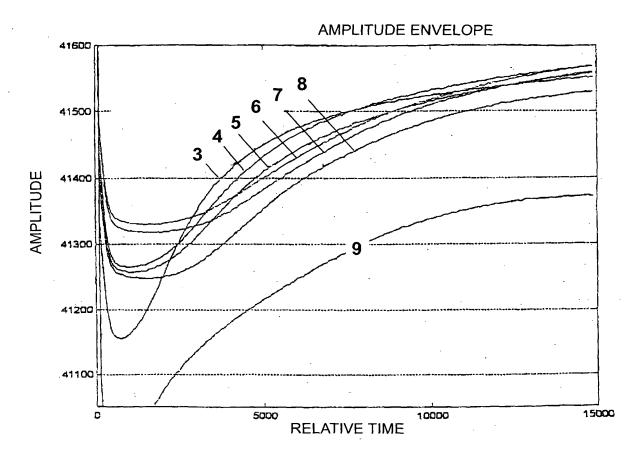


FIG. 27C



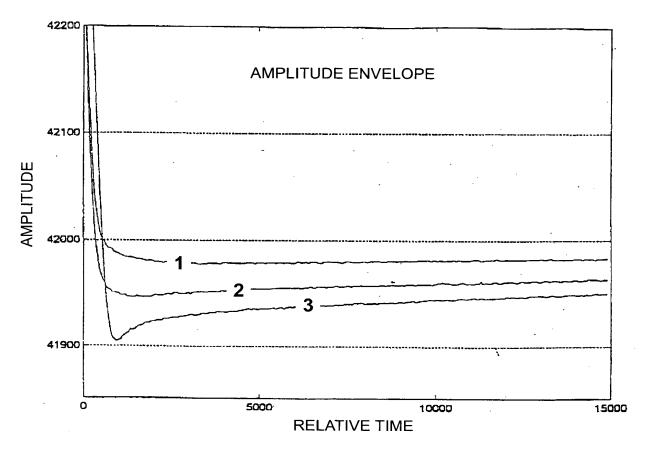
Increasing plot number indicates decreasing state of charge.

FIG. 28A



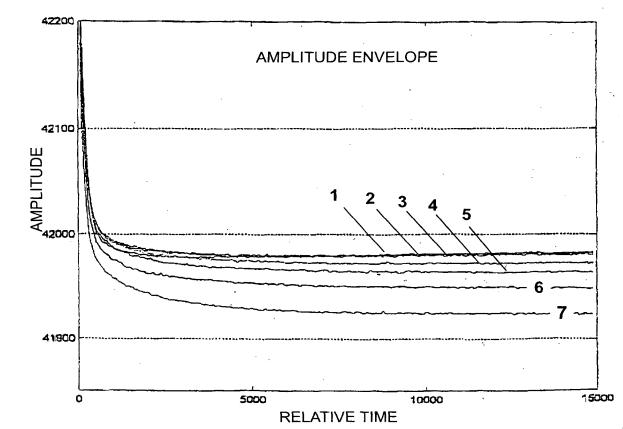
Increasing plot number indicates decreasing state of charge.

FIG. 28B



Increasing plot number indicates decreasing state of charge.

FIG. 29A



Increasing plot number indicates decreasing state of charge.

FIG. 29B